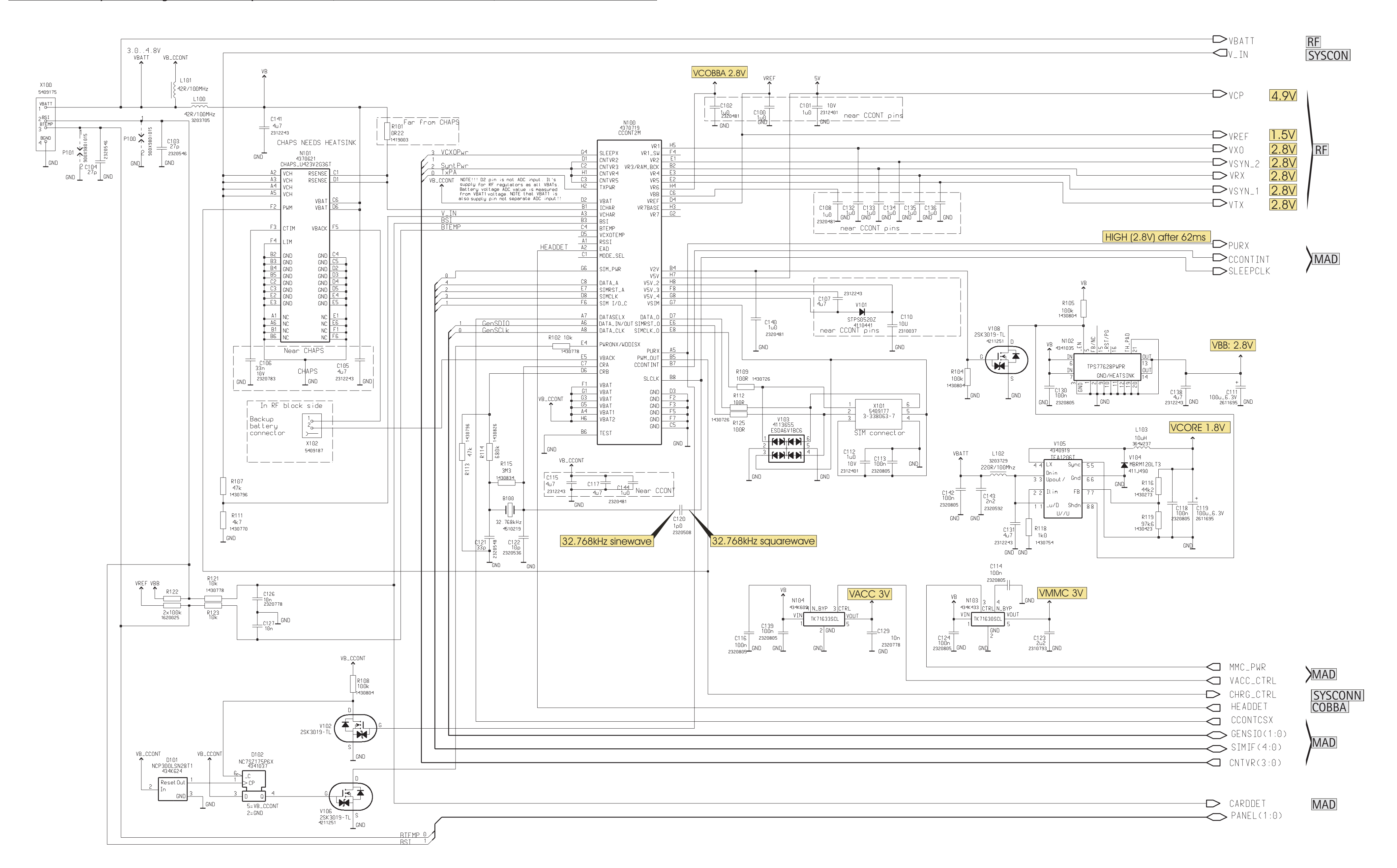
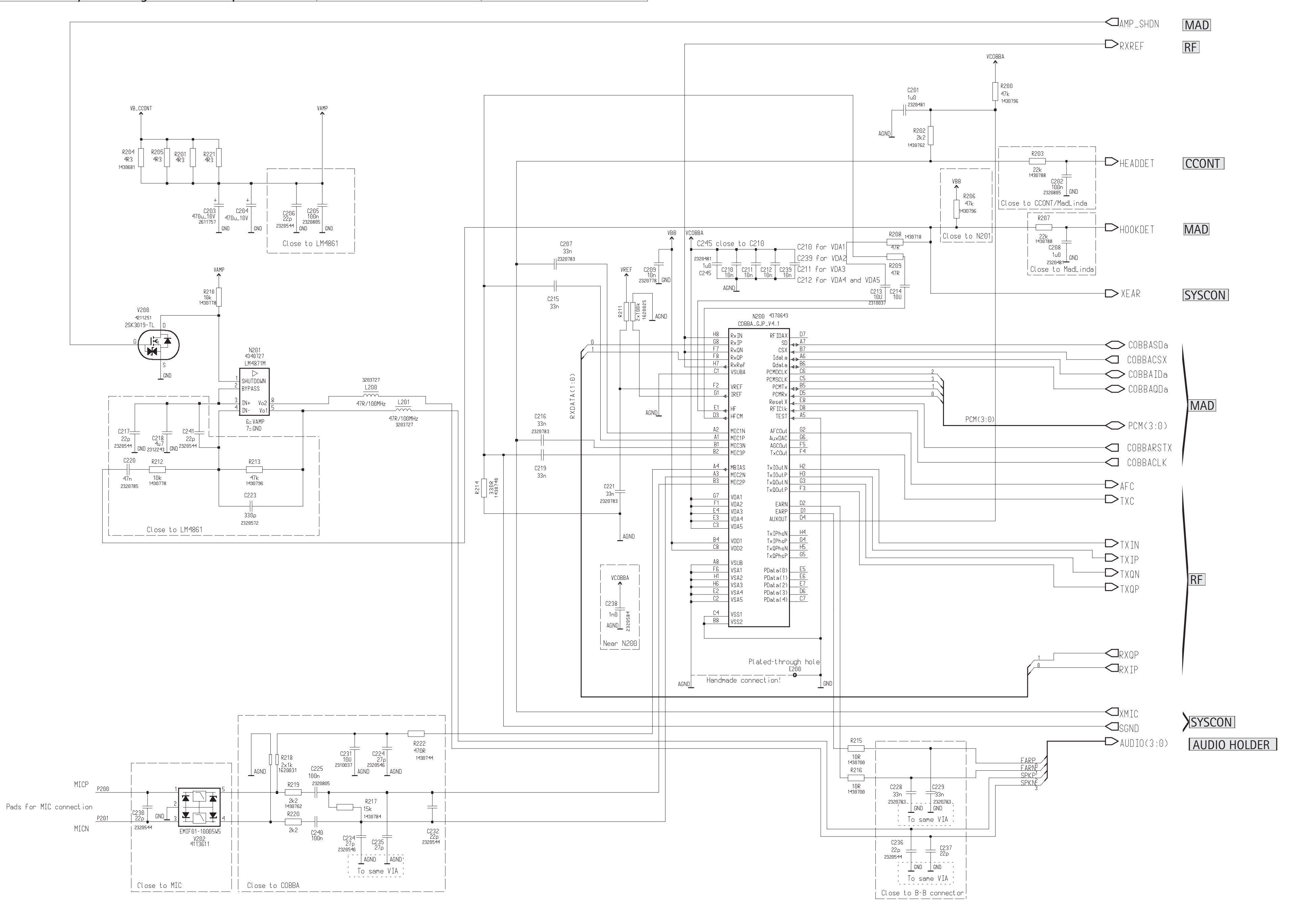
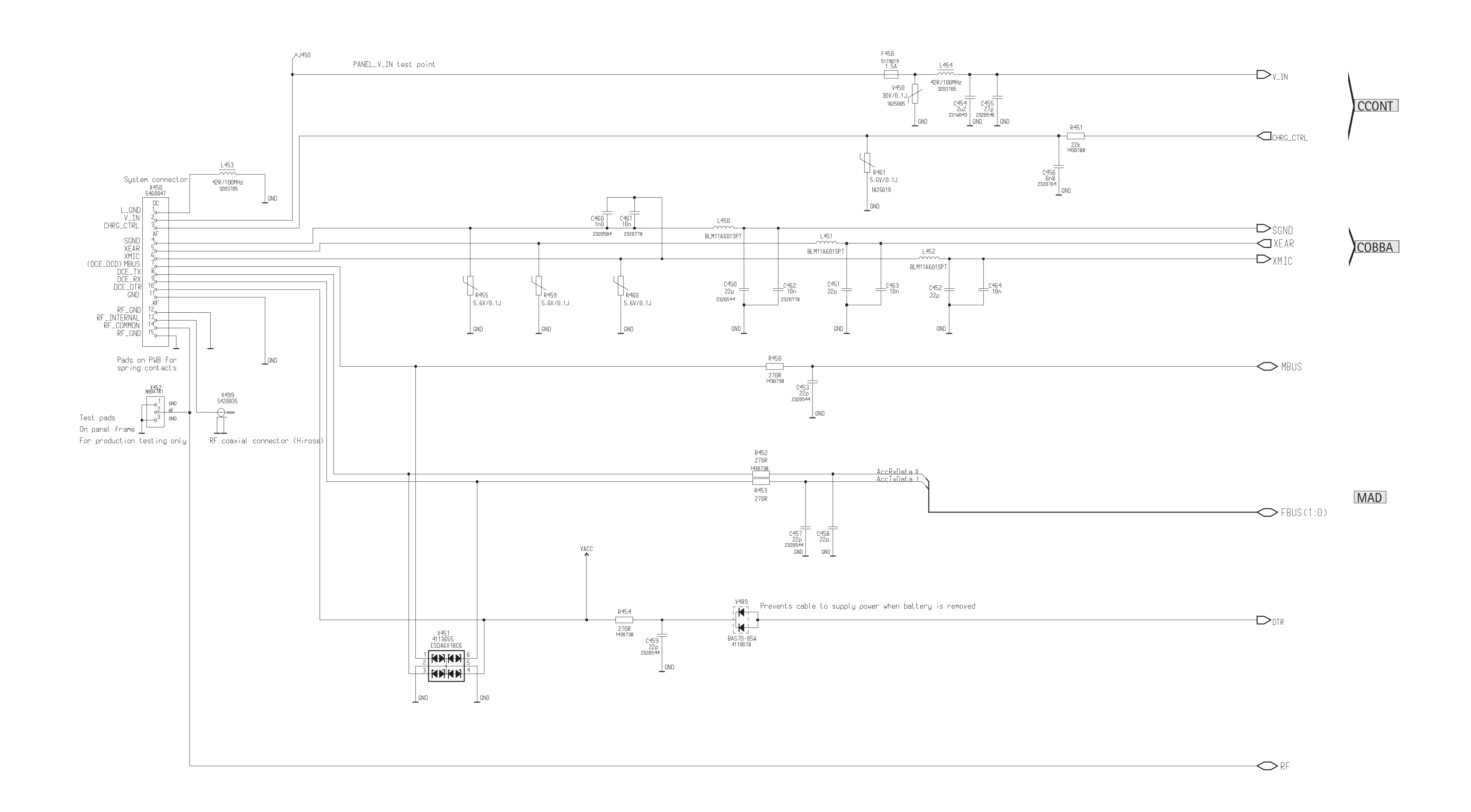
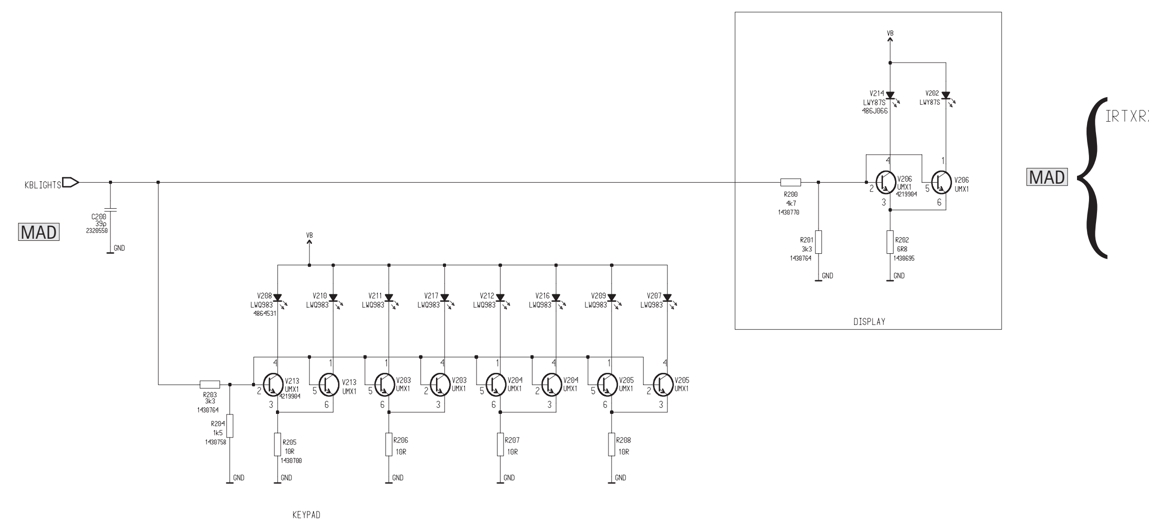
	CONFIDENTIAL		1(16)
NOKIA			
Customer Care Europe & Africa	Power	Version 2.0 Approved	
SCCE Training Group	RAE-3/RAE-5	(PCB) Version KL8_06	
	Modified : 17.03.2003		



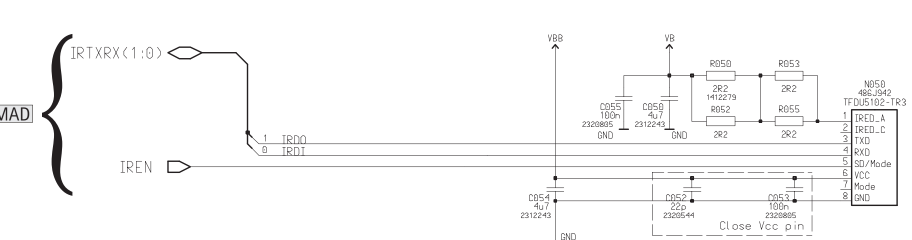

AMP_SHDN
MAD
RXREF
RF
HEADDET
CCONT
HOOKDET
MAD
XEAR
SYSCON
COBBASDa
COBBACSX
COBBAIDa
COBBAQDa
MAD
PCM(3:0)
COBBARSTX
COBBACLK
AFC
TXC
TXIN
TXIP
TXQN
TXQP
RF
RXQP
RXIP
XMIC
SGND
SYSCON
AUDIO(3:0)
AUDIO HOLDER
N200 4370643
COBBA_GJP_V4.1
N201 4340727
LM4871M
V200 4211251
2SK3019-TL
Close to LM4861
Close to CCONT/MadLinda
Close to N201
Close to MadLinda
C245 close to C210
C210 for VDA1
C239 for VDA2
C211 for VDA3
C212 for VDA4 and VDA5
Near N200
Plated-through hole
Handmade connection!
MICP
MICN
Pads for MIC connection
EMIF01-10005W5
V202 4113611
Close to MIC
Close to COBBA
To same VIA
Close to B-B connector
EARP
EARN
SPKP
SPKN

NOKIA	CONFIDENTIAL		3(16)
Customer Care Europe & Africa	System Connector	Version 2.0 Approved	
SCCE Training Group	RAE-3/RAE-5	(PCB) Version KL8_06	
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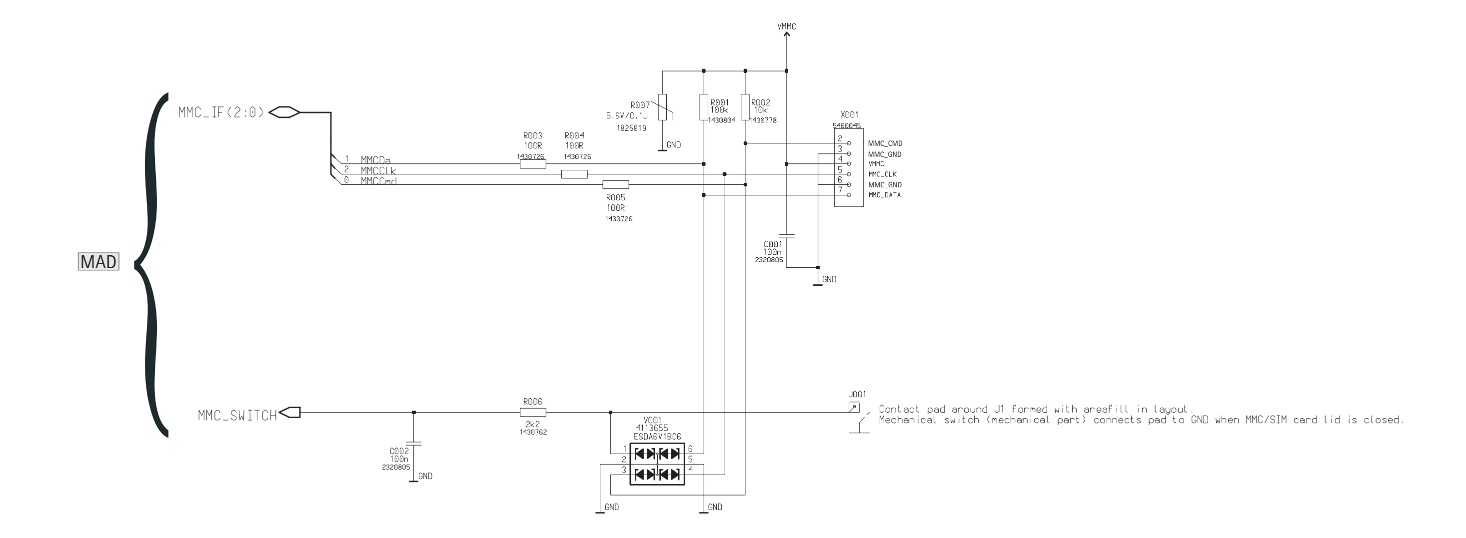




KBLIGHTS
MAD
DISPLAY
KEYPAD

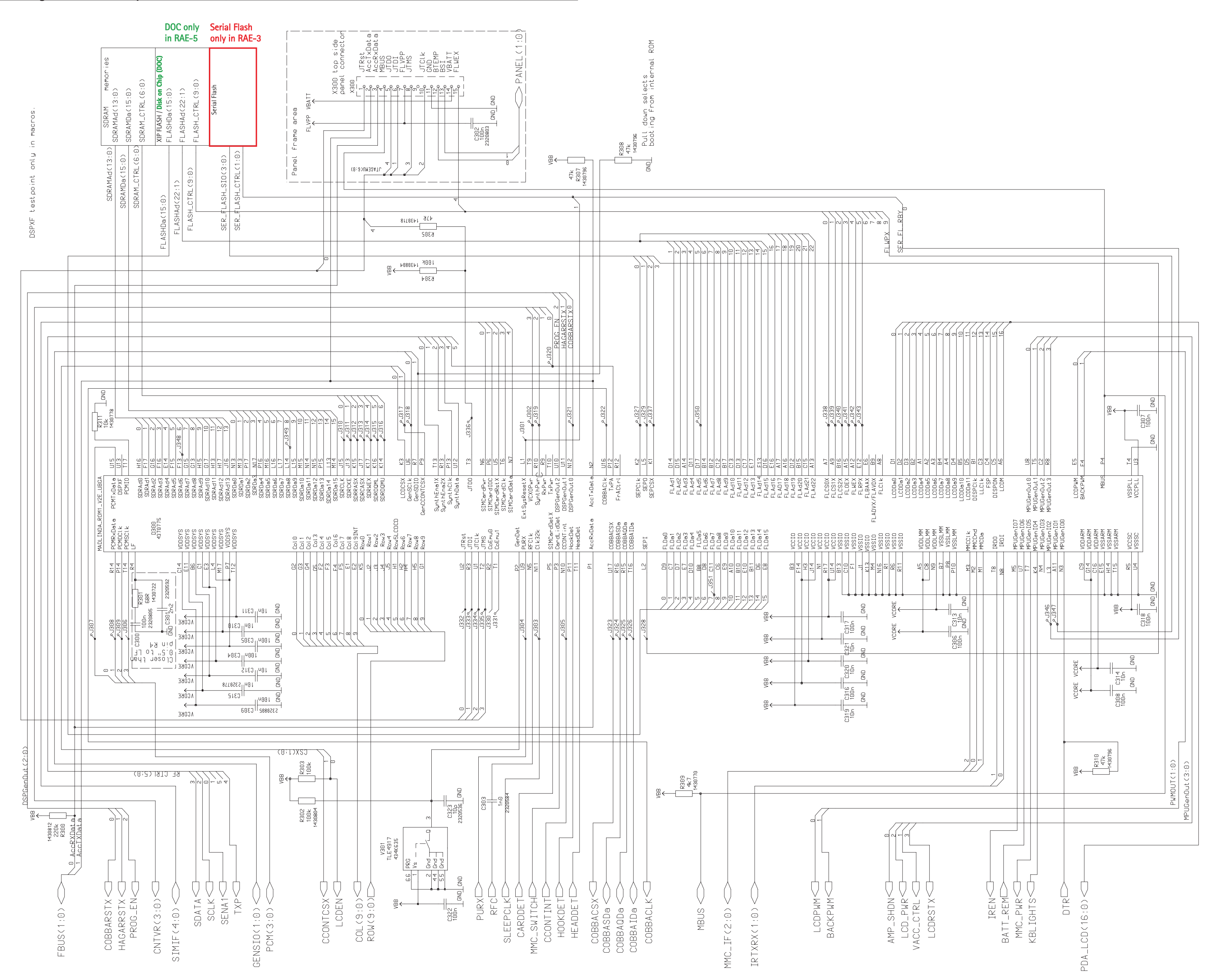


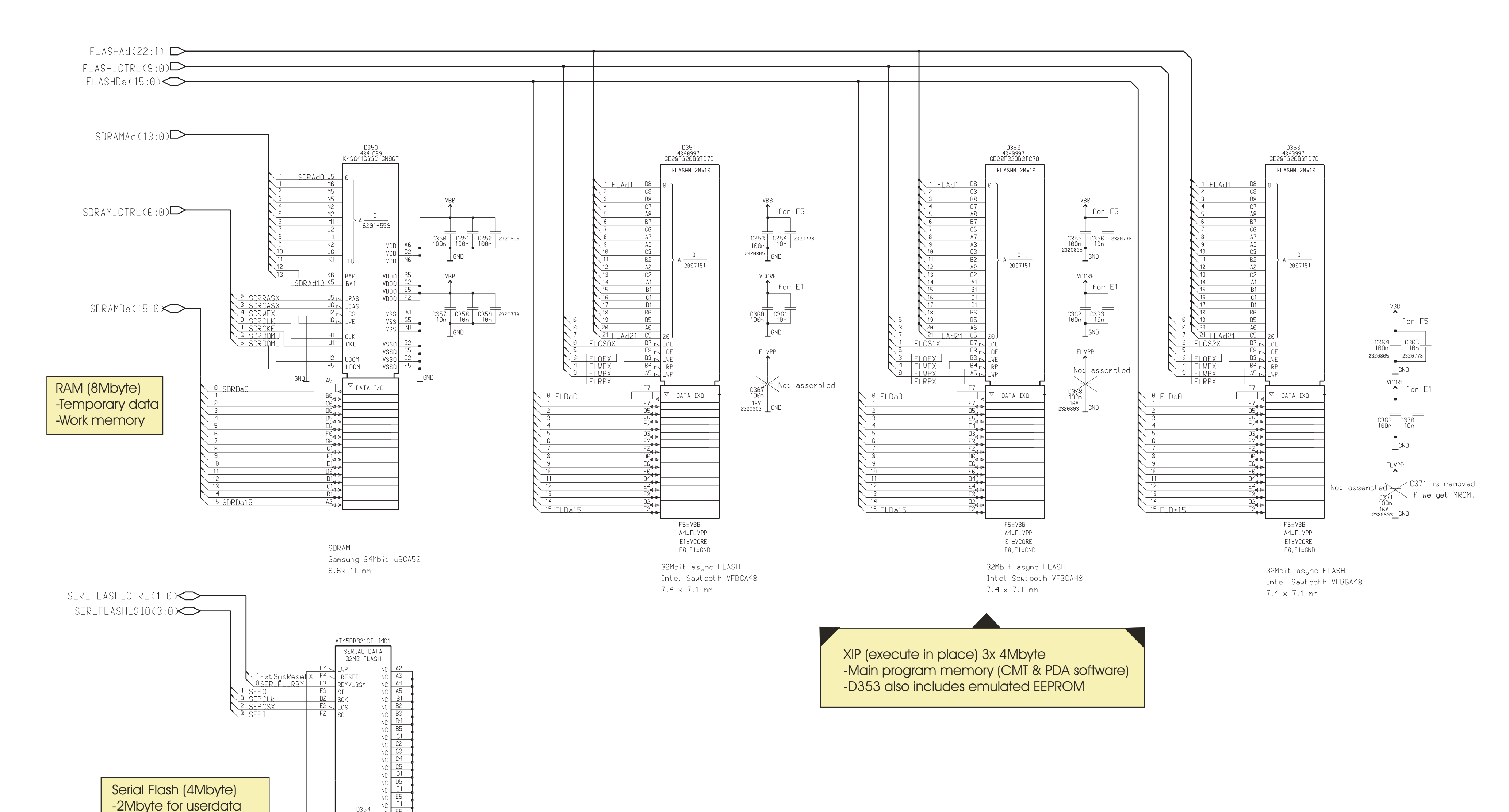
MAD
IRTXRX(1:0)
IREN
IRDO
IRDI
VBB
VB
N050
TFDU5102-TR3
IRED_A
IRED_C
TXD
RXD
SD/Mode
VCC
Mode
GND
Close Vcc pin
All external components close to transceiver



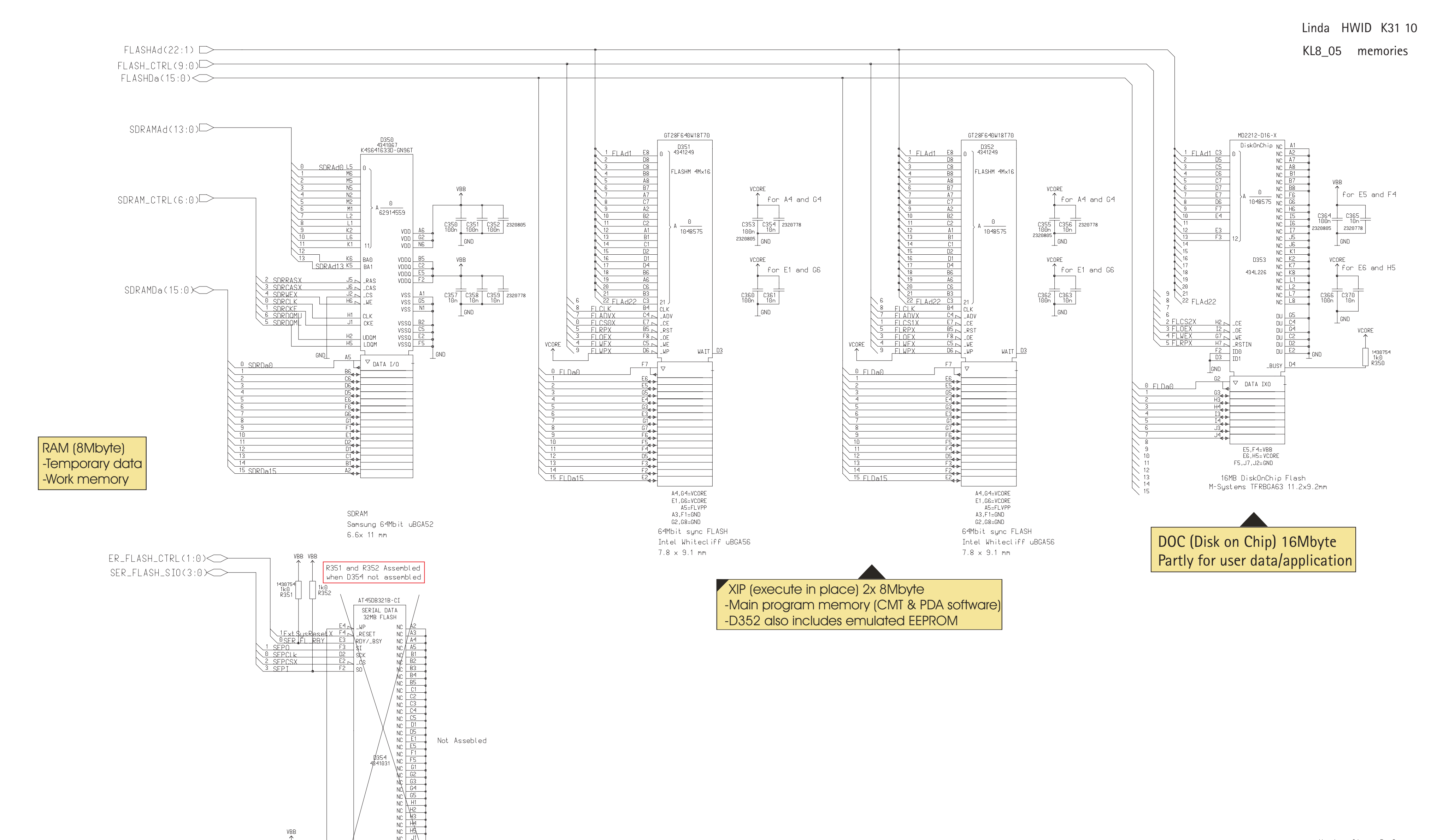
MAD
MMC_IF(2:0)
MMCDa
MMCClk
MMCCmd
MMC_SWITCH
VMMC
X001
MMC_CMD
MMC_GND
VMMC
MMC_CLK
MMC_GND
MMC_DATA
J001
Contact pad around J1 formed with areafill in layout.
Mechanical switch (mechanical part) connects pad to GND when MMC/SIM card lid is closed.

 | Modified : 17.03.2003

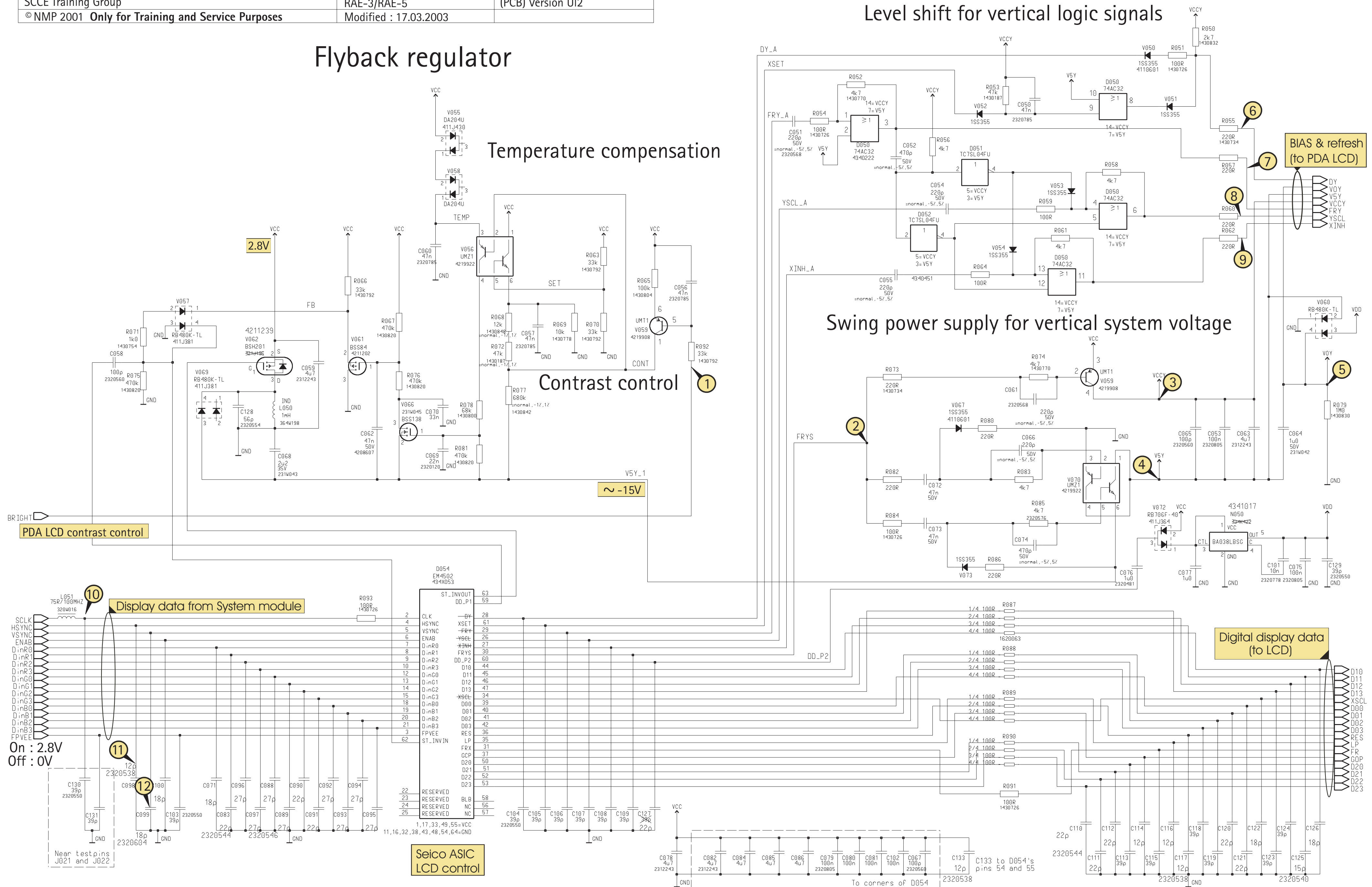




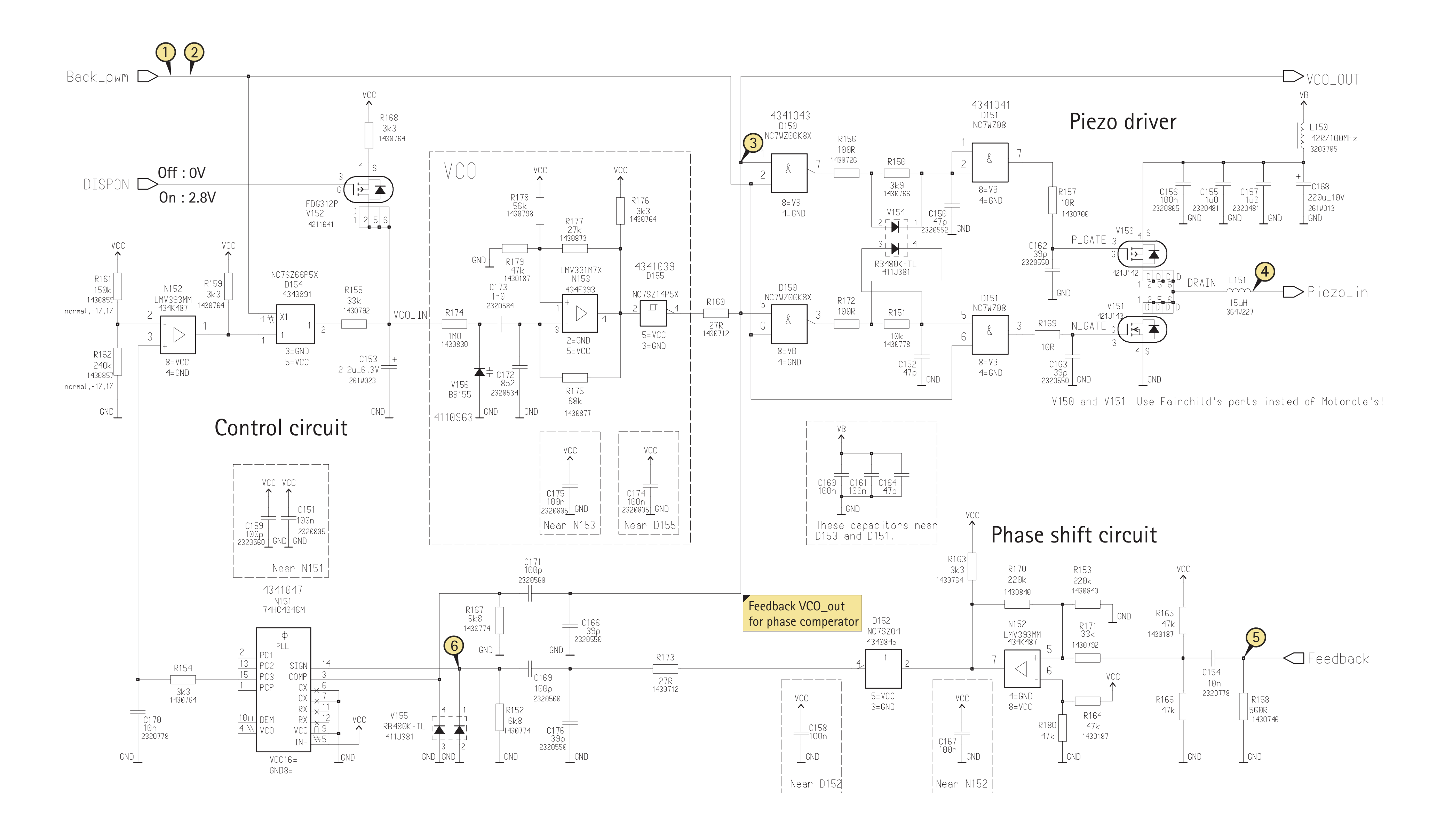
FLASHAd(22:1)
FLASH_CTRL(9:0)
FLASHDa(15:0)
SDRAMAd(13:0)
SDRAM_CTRL(6:0)
SDRAMDa(15:0)
D350
K4S641633C-GN96T
D351
GE28F320B3TC70
D352
GE28F320B3TC70
D353
GE28F320B3TC70
FLASHM 2Mx16
DATA I/O
DATA IXO
VBB
VCORE
FLVPP
GND
for F5
for E1
Not assembled
C371 is removed if we get MROM.
F5=VBB
A4=FLVPP
E1=VCORE
E8,F1=GND
RAM (8Mbyte)
-Temporary data
-Work memory
SDRAM
Samsung 64Mbit uBGA52
6.6x 11 mm
32Mbit async FLASH
Intel Sawtooth VFBGA48
7.4 x 7.1 mm
SER_FLASH_CTRL(1:0)
SER_FLASH_SIO(3:0)
AT45DB321CI_44CI
SERIAL DATA
32MB FLASH
D354
4341031
SERIAL FLASH
Atmel CBGA44
6.2 x 12.2 mm
Serial Flash (4Mbyte)
-2Mbyte for userdata
-2Mbyte for applications
XIP (execute in place) 3x 4Mbyte
-Main program memory (CMT & PDA software)
-D353 also includes emulated EEPROM

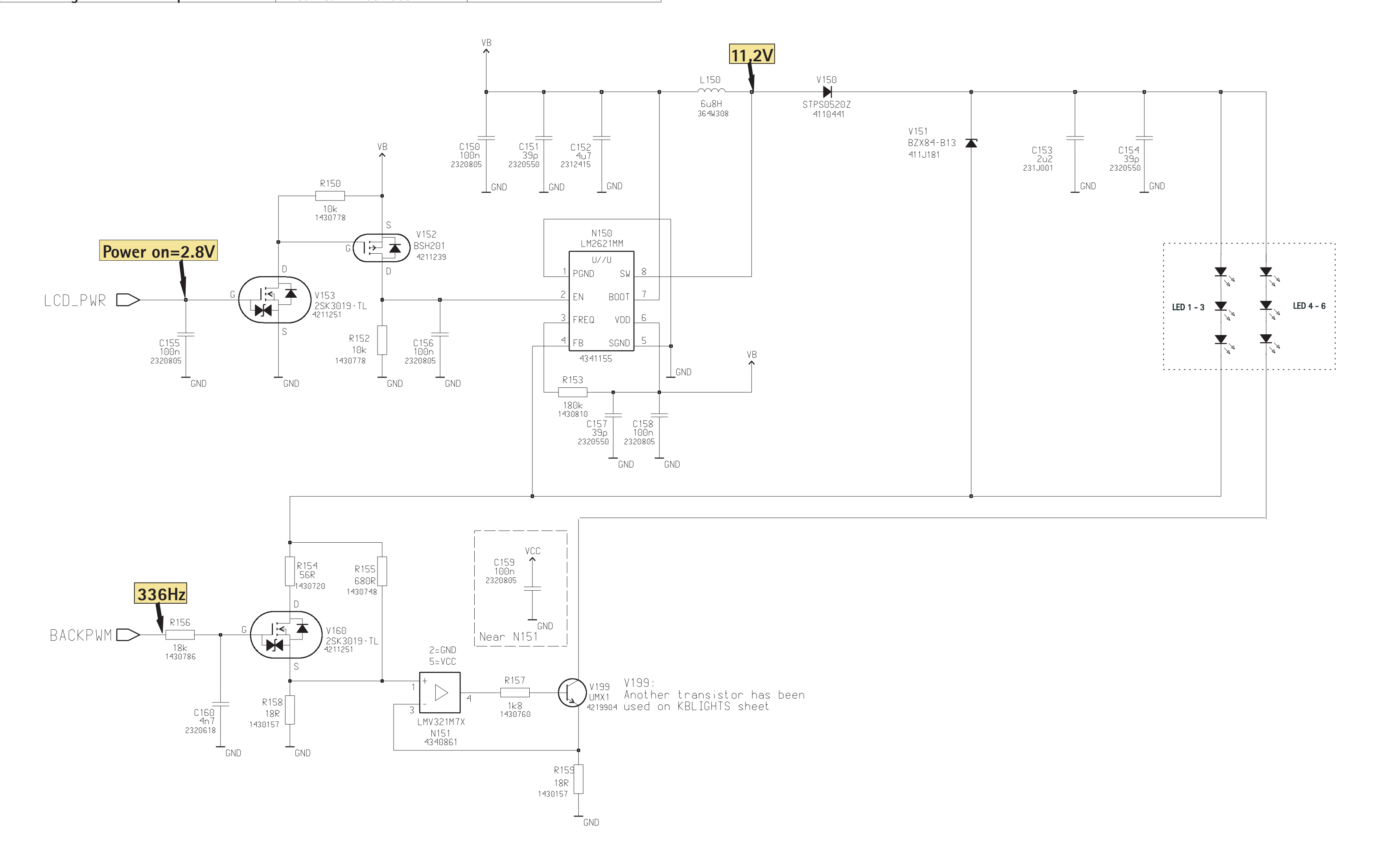


Linda HWID K31 10
KL8_05 memories
FLASHAd(22:1)
FLASH_CTRL(9:0)
FLASHDa(15:0)
SDRAMAd(13:0)
SDRAM_CTRL(6:0)
SDRAMDa(15:0)
D350
K4S641633D-GN96T
SDRAM
Samsung 64Mbit uBGA52
6.6x 11 mm
RAM (8Mbyte)
-Temporary data
-Work memory
GT28F640W18T70
D351
FLASHM 4Mx16
64Mbit sync FLASH
Intel Whitecliff uBGA56
7.8 x 9.1 mm
D352
for A4 and G4
for E1 and G6
MD2212-D16-X
DiskOnChip
D353
16MB DiskOnChip Flash
M-Systems TFRBGA63 11.2x9.2mm
for E5 and F4
for E6 and H5
DOC (Disk on Chip) 16Mbyte
Partly for user data/application
XIP (execute in place) 2x 8Mbyte
-Main program memory (CMT & PDA software)
-D352 also includes emulated EEPROM
ER_FLASH_CTRL(1:0)
SER_FLASH_SIO(3:0)
R351 and R352 Assembled
when D354 not assembled
AT45DB321B-CI
SERIAL DATA
32MB FLASH
D354
Not Assebled
SERIAL FLASH
Atmel CBGA44
6.2 x 12.2 mm
Used prefixes: D, C
Component refs. 350-399

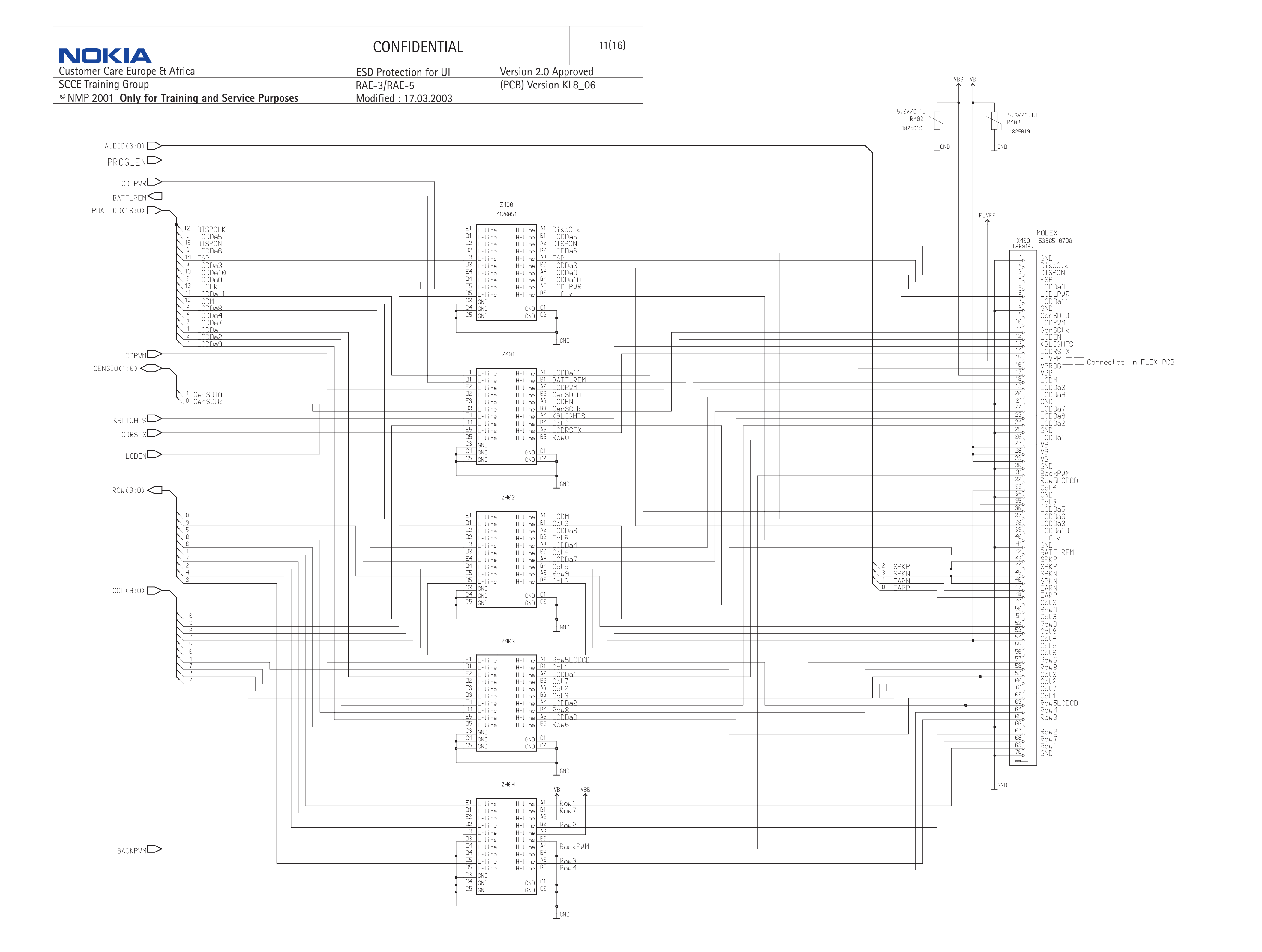


Flyback regulator
Temperature compensation
Contrast control
Swing mode regulator
Level shift for vertical logic signals
Swing power supply for vertical system voltage
BIAS & refresh (to PDA LCD)
Digital display data (to LCD)
Display data from System module
PDA LCD contrast control
Seico ASIC LCD control
2.8V
~ -15V
On : 2.8V
Off : 0V
Near testpins J021 and J022
To corners of D054
C133 to D054's pins 54 and 55
BRIGHT
SCLK
HSYNC
VSYNC
ENAB
DinR0
DinR1
DinR2
DinR3
DinG0
DinG1
DinG2
DinG3
DinB0
DinB1
DinB2
DinB3
FPVEE
DY
VOY
V5Y
VCCY
FRY
YSCL
XINH
D10
D11
D12
D13
XSCL
D00
D01
D02
D03
RES
LP
FR
GCP
D20
D21
D22
D23
DY_A
XSET
FRY_A
YSCL_A
XINH_A
FRYS
DD_P2
V5Y_1
D054
EM4502
434X053

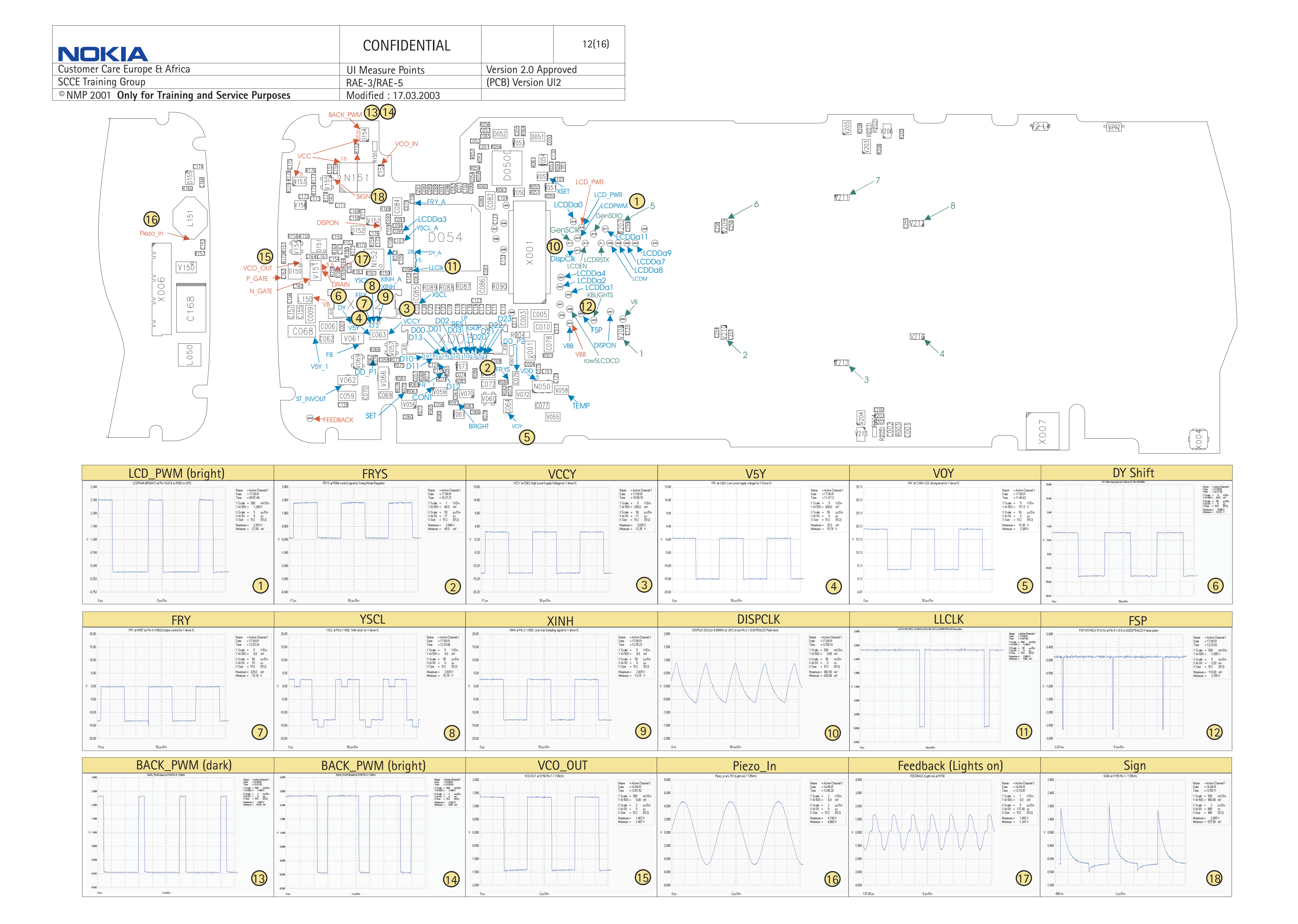

Back_pwm
DISPON
Off : 0V
On : 2.8V
VCO_OUT
Piezo driver
Piezo_in
VCO
VCO_IN
Control circuit
Phase shift circuit
Feedback
Feedback VCO_out for phase comparator
These capacitors near D150 and D151.
V150 and V151: Use Fairchild's parts insted of Motorola's!
Near N151
Near N153
Near D155
Near D152
Near N152
P_GATE
N_GATE
DRAIN
1
2
3
4
5
6

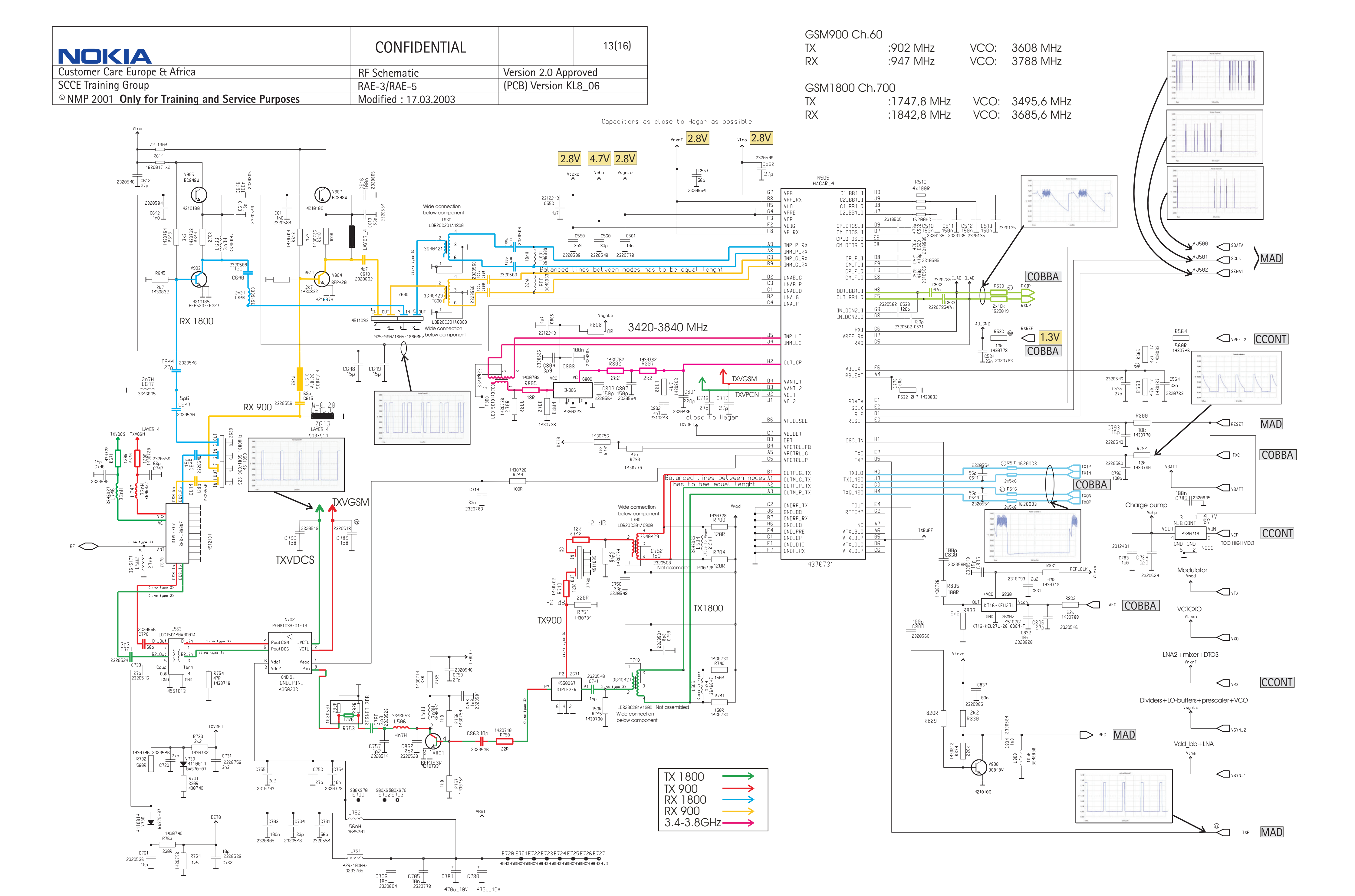


VB
11,2V
L150
6u8H
364W308
V150
STPS0520Z
4110441
V151
BZX84-B13
411J181
C150
100n
2320805
C151
39p
2320550
C152
4u7
2312415
C153
2u2
231J001
C154
39p
2320550
GND
R150
10k
1430778
V152
BSH201
4211239
Power on=2.8V
LCD_PWR
V153
2SK3019-TL
4211251
C155
100n
2320805
R152
10k
1430778
C156
100n
2320805
N150
LM2621MM
PGND
SW
EN
BOOT
FREQ
VDD
FB
SGND
4341155
R153
180k
1430810
C157
39p
2320550
C158
100n
2320805
LED 1 - 3
LED 4 - 6
R154
56R
1430720
R155
680R
1430748
336Hz
BACKPWM
R156
18k
1430786
V160
2SK3019-TL
4211251
C160
4n7
2320618
R158
18R
1430157
C159
100n
2320805
VCC
Near N151
2=GND
5=VCC
LMV321M7X
N151
4340861
R157
1k8
1430760
V199
UMX1
4219904
V199:
Another transistor has been
used on KBLIGHTS sheet
R159
18R
1430157



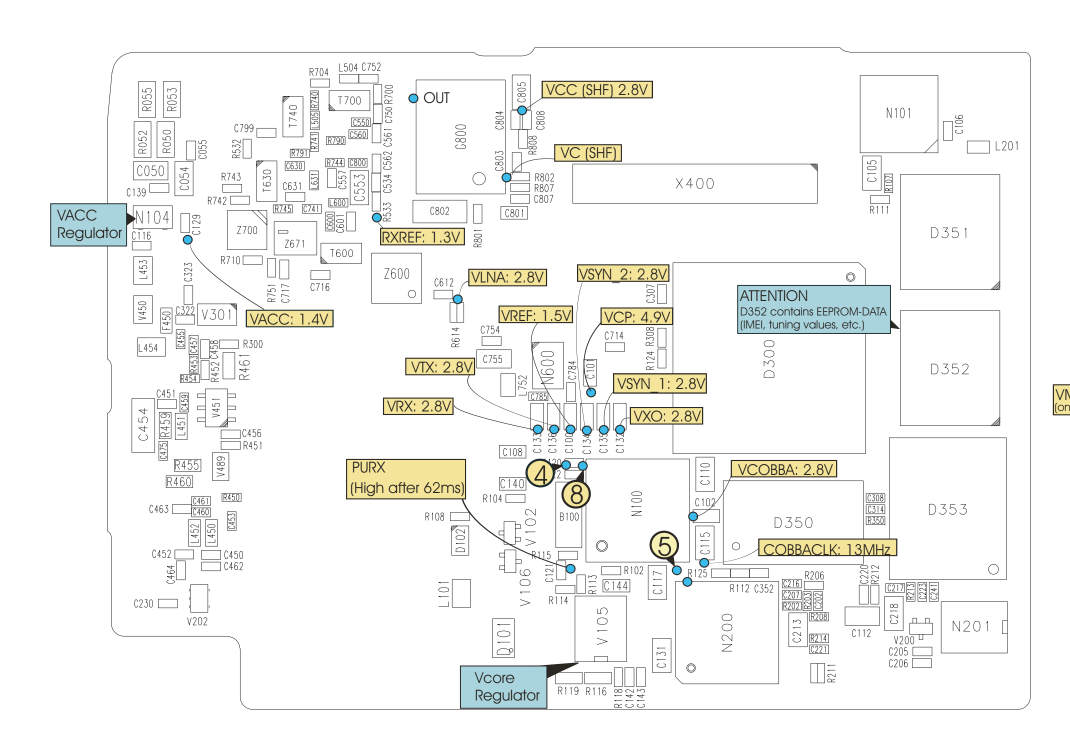
AUDIO(3:0)
PROG_EN
LCD_PWR
BATT_REM
PDA_LCD(16:0)
LCDPWM
GENSIO(1:0)
KBLIGHTS
LCDRSTX
LCDEN
ROW(9:0)
COL(9:0)
BACKPWM
Z400
4120051
Z401
Z402
Z403
Z404
L-line
H-line
GND
VBB
VB
5.6V/0.1J
R402
1825019
5.6V/0.1J
R403
1825019
FLVPP
MOLEX
X400
53885-0708
5469147
GND
DispClk
DISPON
FSP
LCDDa0
LCD_PWR
LCDDa11
GenSDIO
LCDPWM
GenSClk
LCDEN
KBLIGHTS
LCDRSTX
FLVPP
VPROG
Connected in FLEX PCB
VBB
LCDM
LCDDa8
LCDDa4
LCDDa7
LCDDa9
LCDDa2
LCDDa1
VB
BackPWM
Row5LCDCD
Col4
Col3
LCDDa5
LCDDa6
LCDDa3
LCDDa10
LLClk
BATT_REM
SPKP
SPKN
EARN
EARP
Col0
Row0
Col9
Row9
Col8
Col5
Col6
Row6
Row8
Col2
Col7
Col1
Row4
Row3
Row2
Row7
Row1

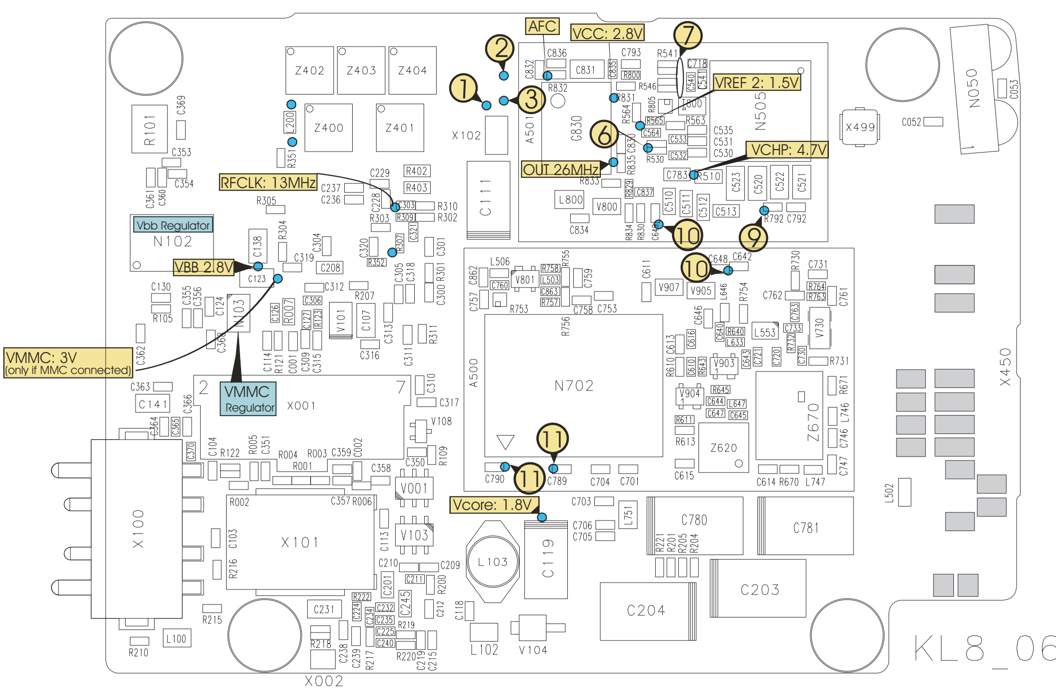

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UI Measure Points
RAE-3/RAE-5
Modified : 17.03.2003
Version 2.0 Approved
(PCB) Version UI2
BACK_PWM
VCO_IN
VCC
SIGN
DISPON
Piezo_in
VCO_OUT
P_GATE
N_GATE
DRAIN
LCD_PWR
LCDPWM
GenSDIO
GenSClk
DispClk
LCDEN
LCDRSTX
LCDDa0
LCDDa1
LCDDa2
LCDDa3
LCDDa4
LCDDa7
LCDDa8
LCDDa9
LCDDa11
LCDM
KBLIGHTS
FSP
DISPON
VBB
row5LCDCD
XSET
FRY_A
YSCL_A
DY_A
LLClk
XINH_A
XINH
XSCL
YSCL
FRY
VCCY
V5Y
V5Y_1
FB
ST_INVOUT
FEEDBACK
SET
CONT
BRIGHT
VOY
VDD
FRYS
TEMP
LCD_PWM (bright)
FRYS
VCCY
V5Y
VOY
DY Shift
FRY
YSCL
XINH
DISPCLK
LLCLK
FSP
BACK_PWM (dark)
BACK_PWM (bright)
VCO_OUT
Piezo_In
Feedback (Lights on)
Sign

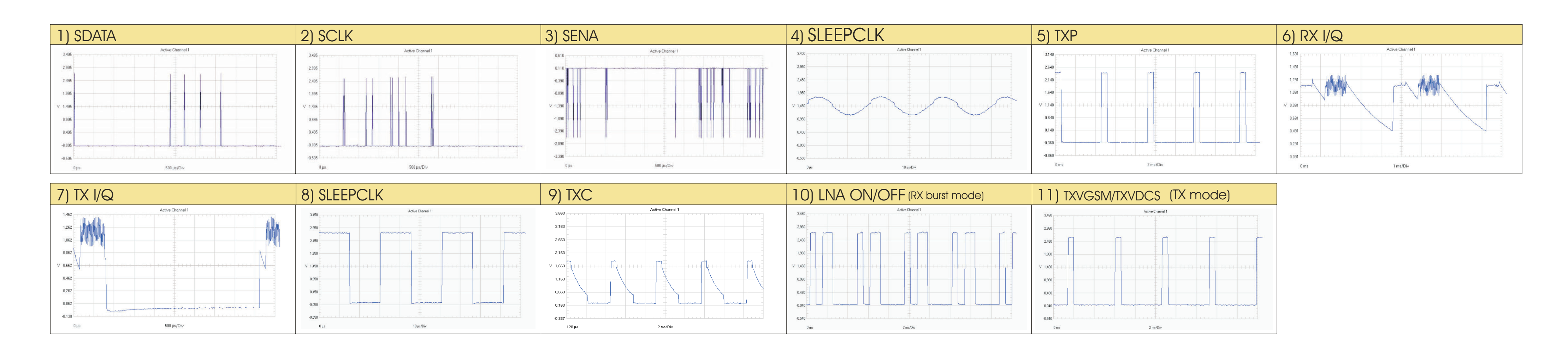


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SCCE Training Group
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RF Schematic
RAE-3/RAE-5
Modified : 17.03.2003
Version 2.0 Approved
(PCB) Version KL8_06
GSM900 Ch.60
TX :902 MHz VCO: 3608 MHz
RX :947 MHz VCO: 3788 MHz
GSM1800 Ch.700
TX :1747,8 MHz VCO: 3495,6 MHz
RX :1842,8 MHz VCO: 3685,6 MHz
Capacitors as close to Hagar as possible
2.8V
4.7V
2.8V
2.8V
2.8V
N505
HAGAR_4
4370731
Wide connection below component
Balanced lines between nodes has to be equal lenght
3420-3840 MHz
RX 1800
RX 900
TXVGSM
TXVPCN
TXVDCS
TX1800
TX900
-2 dB
-2 dB
close to Hagar
Not assembled
COBBA
COBBA
COBBA
COBBA
COBBA
CCONT
CCONT
CCONT
MAD
MAD
MAD
MAD
1.3V
Charge pump
TOO HIGH VOLT
Modulator
VCTCXO
LNA2+mixer+DTOS
Dividers+LO-buffers+prescaler+VCO
Vdd_bb+LNA
TX 1800
TX 900
RX 1800
RX 900
3.4-3.8GHz

NOKIA	CONFIDENTIAL		14(16)
Customer Care Europe & Africa	Measure Points on KL8_6 Module	Version 2.0 Approved	
SCCE Training Group	RAE-3/RAE-5	(PCB) Version KL8_06	
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A
A500 - C3
A501 - D2

B
B100 - D8

C
C001 - B3
C002 - C4
C050 - A6
C052 - F1
C053 - G1
C054 - A6
C055 - B6
C100 - D8
C101 - D7
C102 - E8
C103 - B4
C104 - B4
C105 - F6
C106 - F6
C107 - C3
C108 - D8
C110 - E8
C111 - C2
C112 - F9
C113 - C4
C114 - B3
C115 - E8
C116 - A6
C117 - D9
C118 - C5
C119 - D4
C120 - D8
C121 - D8
C122 - D8
C123 - B2
C124 - B3
C126 - B3
C127 - B3
C129 - A6
C130 - A3
C131 - E9
C132 - D7
C133 - D7
C134 - D7
C135 - D7
C136 - D7
C138 - B2
C139 - A6
C140 - D8
C141 - A3
C142 - D9
C143 - D9
C144 - D9
C201 - C4
C202 - F9
C203 - E4
C204 - D5
C205 - F9
C206 - F9
C207 - E9
C208 - B2
C209 - C4
C210 - C4
C211 - C4
C212 - C5
C213 - E9
C215 - C5
C216 - E9
C217 - F9
C218 - F9
C219 - C5
C220 - F9
C221 - F9
C223 - F9
C224 - C5
C225 - C5
C228 - C2
C229 - C2
C230 - A9
C231 - B5
C232 - C5
C234 - C5
C235 - B5
C236 - C2
C237 - C2
C238 - C5
C239 - C5
C240 - C5
C241 - F9
C245 - C5
C300 - C3
C301 - C2
C303 - C2
C304 - B2
C305 - C3
C306 - B3
C307 - E7
C308 - F8
C309 - B3
C310 - C3
C311 - C3
C312 - B3
C313 - C3
C314 - F8
C315 - B3
C316 - C3
C317 - C3
C318 - C3
C319 - B2
C320 - C2
C321 - C2
C322 - A7
C323 - A7
C350 - C4
C351 - B4
C352 - E8
C353 - A2
C354 - A2
C355 - A3
C356 - B3
C357 - C4
C358 - C4
C359 - C4
C360 - A2
C361 - A2
C362 - A3
C362 - A3
C364 - A3
C365 - A3
C366 - B3
C369 - A1
C370 - B4
C450 - B8
C451 - A7
C452 - A8
C453 - B8
C454 - A8
C455 - A7
C456 - B8
C457 - B7
C458 - B7
C459 - A7
C460 - B8
C461 - B8
C462 - B8
C463 - A8
C464 - A8
C475 - A8
C510 - E2
C511 - E2
C512 - E2
C513 - E2
C520 - E2
C521 - E2
C522 - E2
C523 - E2
C530 - E2
C531 - E2
C532 - E2
C533 - E2
C534 - C6
C535 - E2
C540 - E1
C541 - E1
C550 - C6
C553 - C6
C557 - B6
C560 - C6
C561 - C6
C562 - C6
C564 - E2
C600 - B6
C601 - C6
C610 - E3
C611 - D3
C612 - C7
C613 - E3
C614 - E4
C615 - E4
C616 - E3
C630 - B6
C631 - B6
C640 - E3
C642 - E2
C643 - E3
C644 - E3
C645 - E3
C646 - E3
C647 - E3
C648 - E2
C649 - E2
C701 - D4
C703 - D4
C704 - D4
C705 - D4
C706 - D4
C714 - D7
C716 - B7
C717 - B7
C718 - E1
C720 - E3
C721 - E3
C730 - E3
C731 - F2
C733 - E3
C741 - B6
C746 - F3
C747 - F4
C750 - C6
C752 - C5
C753 - D3
C754 - C7
C755 - C7
C757 - C3
C758 - D3
C759 - D2
C760 - C2
C761 - F3
C762 - E3
C780 - E4
C781 - E4
C783 - E2
C784 - D7
C785 - D7
C789 - D4
C790 - C4
C792 - E2
C793 - D1
C799 - B6
C800 - C6
C801 - D6
C802 - C6
C803 - D6
C804 - D6
C805 - D5
C807 - D6
C808 - D6
C830 - D2
C831 - D1
C832 - D1
C834 - D2
C835 - D1
C836 - D1
C837 - D2
C862 - C2
C863 - D2

D
D101 - D9
D102 - C8
D300 - E7
D350 - E8
D351 - F6
D352 - F7
D353 - F8

F
F450 - A7

G
G800 - C6
G830 - D1

J
J301 - F6
J310 - F8
J316 - F8
J318 - E7
J319 - D8
J320 - E8
J321 - E8
J323 - D9
J324 - E9
J327 - F6
J328 - C2
J329 - F6
J338 - F7
J339 - F7
J340 - F8
J341 - F6
J342 - F7
J343 - F7
J346 - B2
J347 - F7
J348 - F8
J349 - E8
J350 - F8
J351 - F6
J500 - C1
J501 - D1
J502 - D1

L
L100 - A5
L101 - C9
L102 - C5
L103 - C4
L200 - B1
L201 - G6
L450 - B8
L451 - A8
L452 - B8
L453 - A7
L454 - A7
L502 - F4
L503 - D2
L504 - C5
L505 - B6
L506 - D2
L553 - E3
L600 - B6
L631 - B6
L633 - E3
L646 - E3
L647 - F4
L747 - F4
L751 - D4
L752 - D7
L800 - D2

N
N050 - G1
N100 - D8
N101 - F6
N102 - A2
N103 - B3
N104 - A6
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N201 - F9
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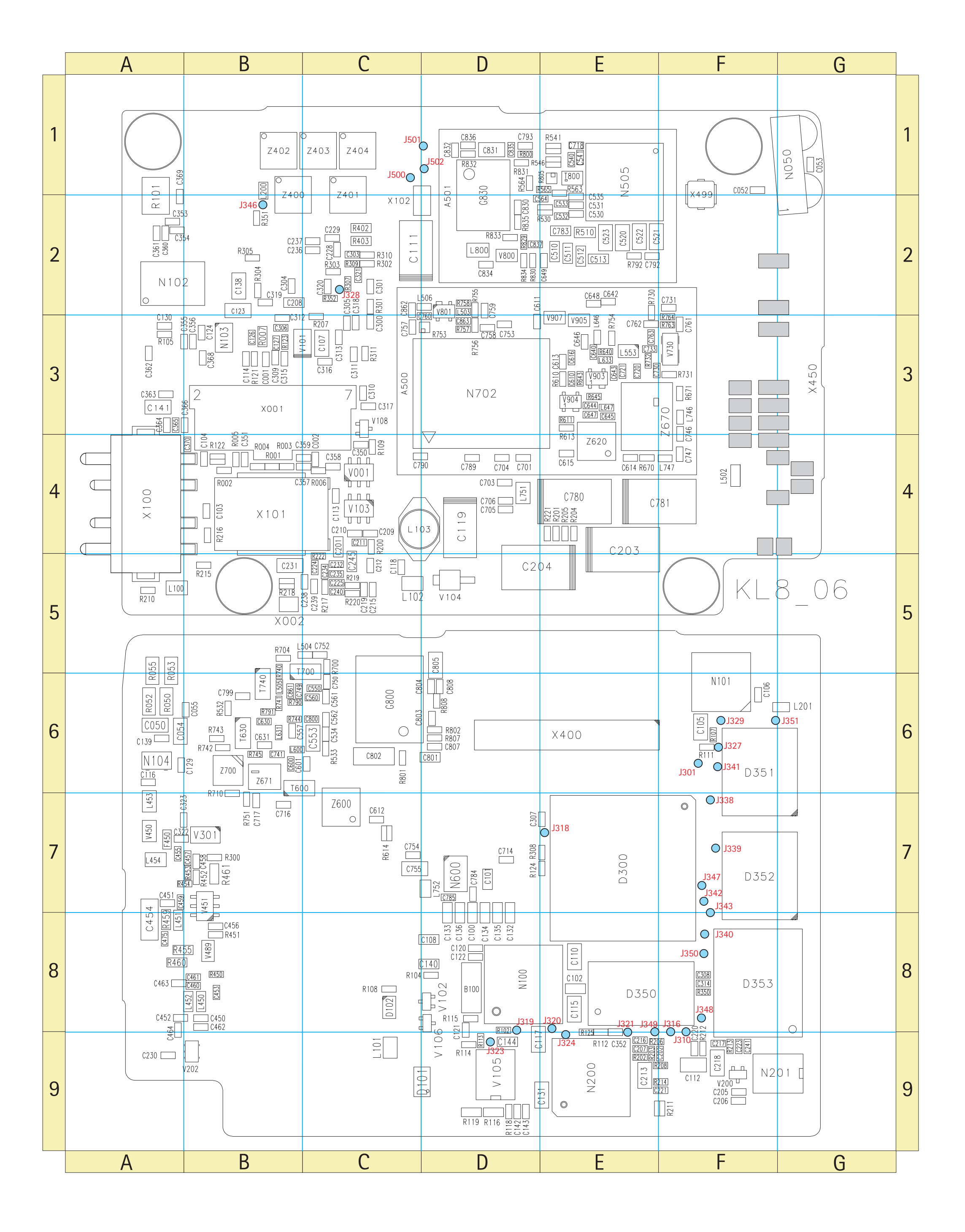
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V202 - B9
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V907 - E3

X
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 | Modified : 17.03.2003

B
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